

Fig. 1

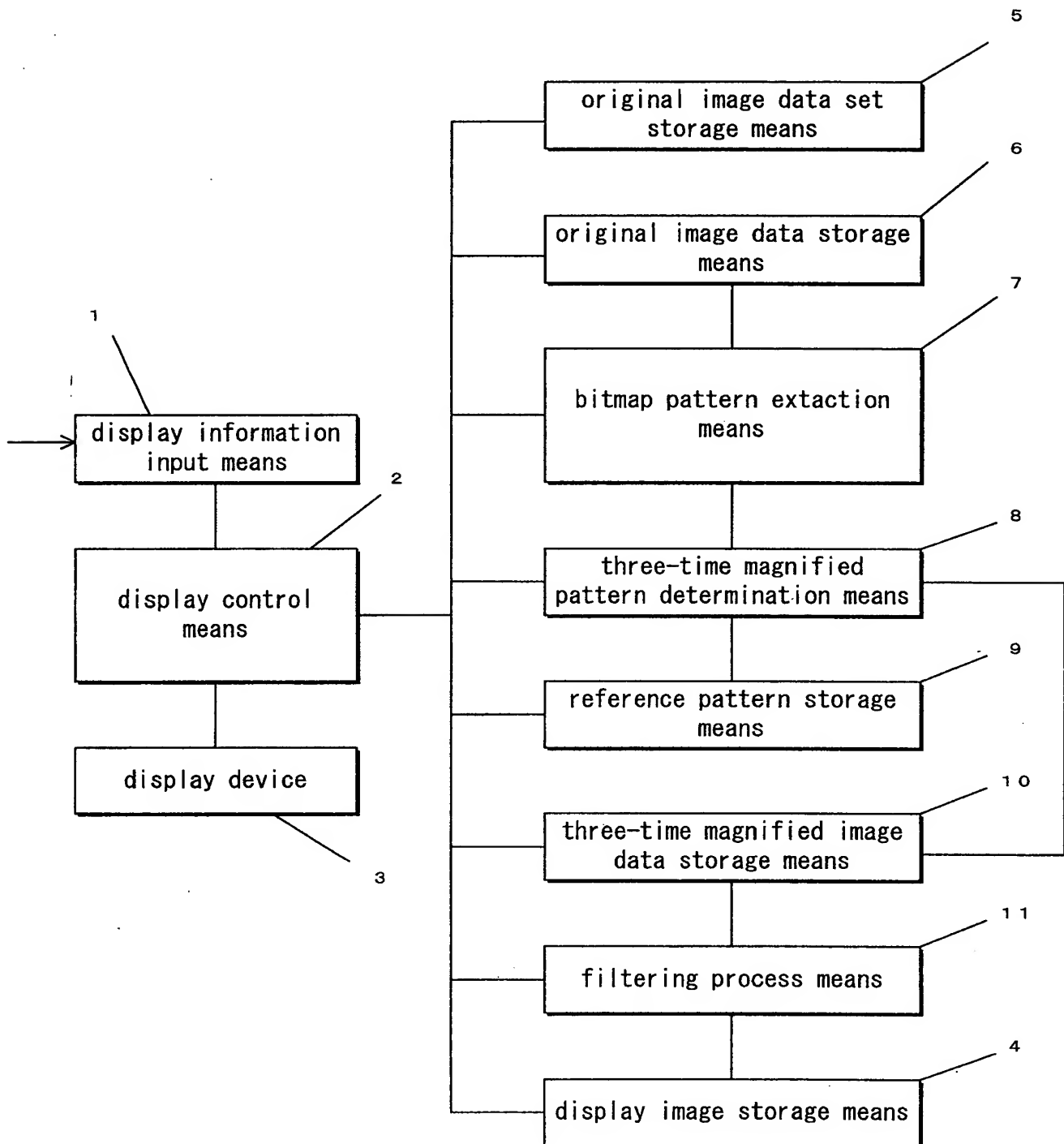


Fig. 2

Sheet 2 of 17

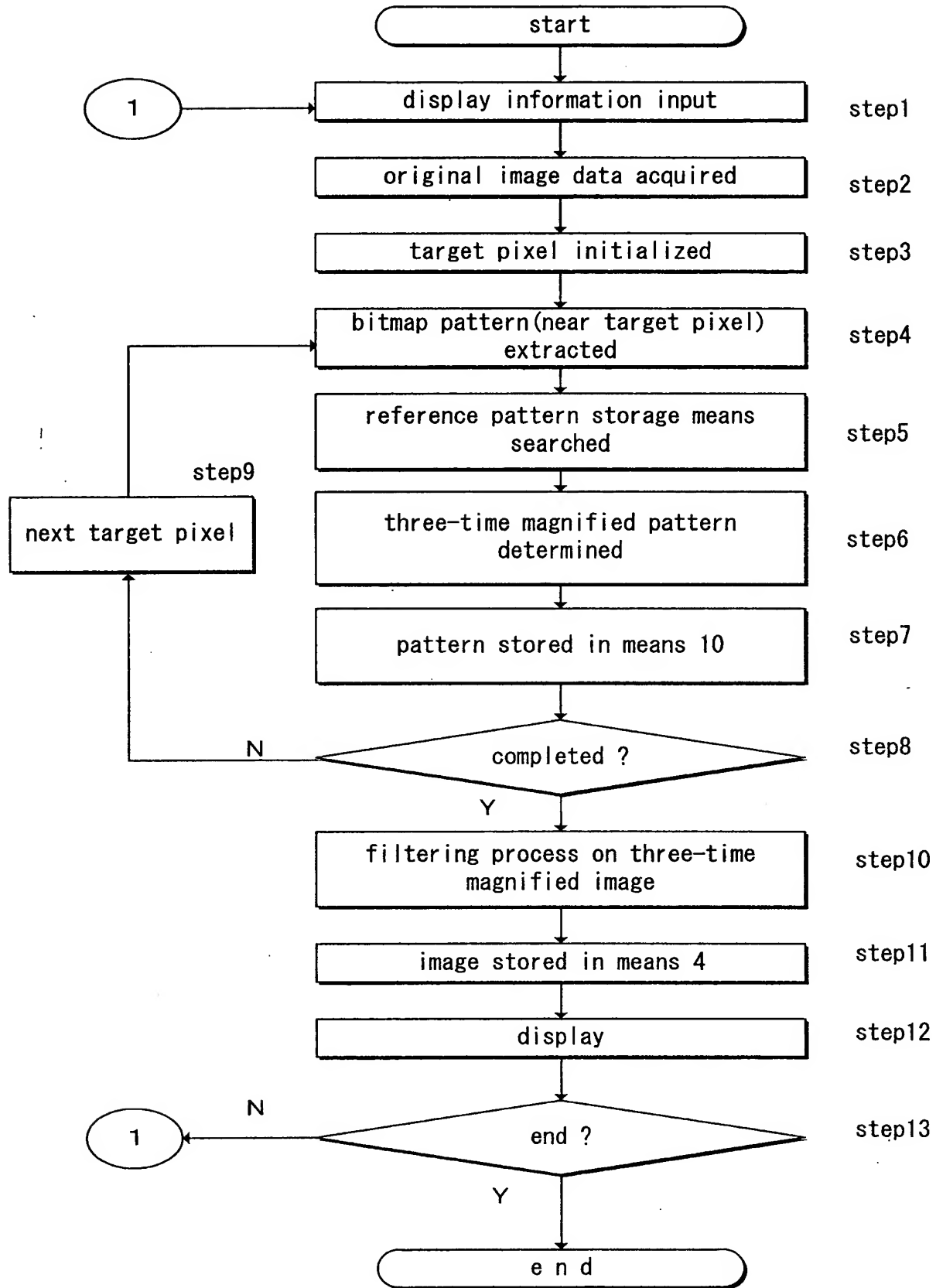


Fig. 3

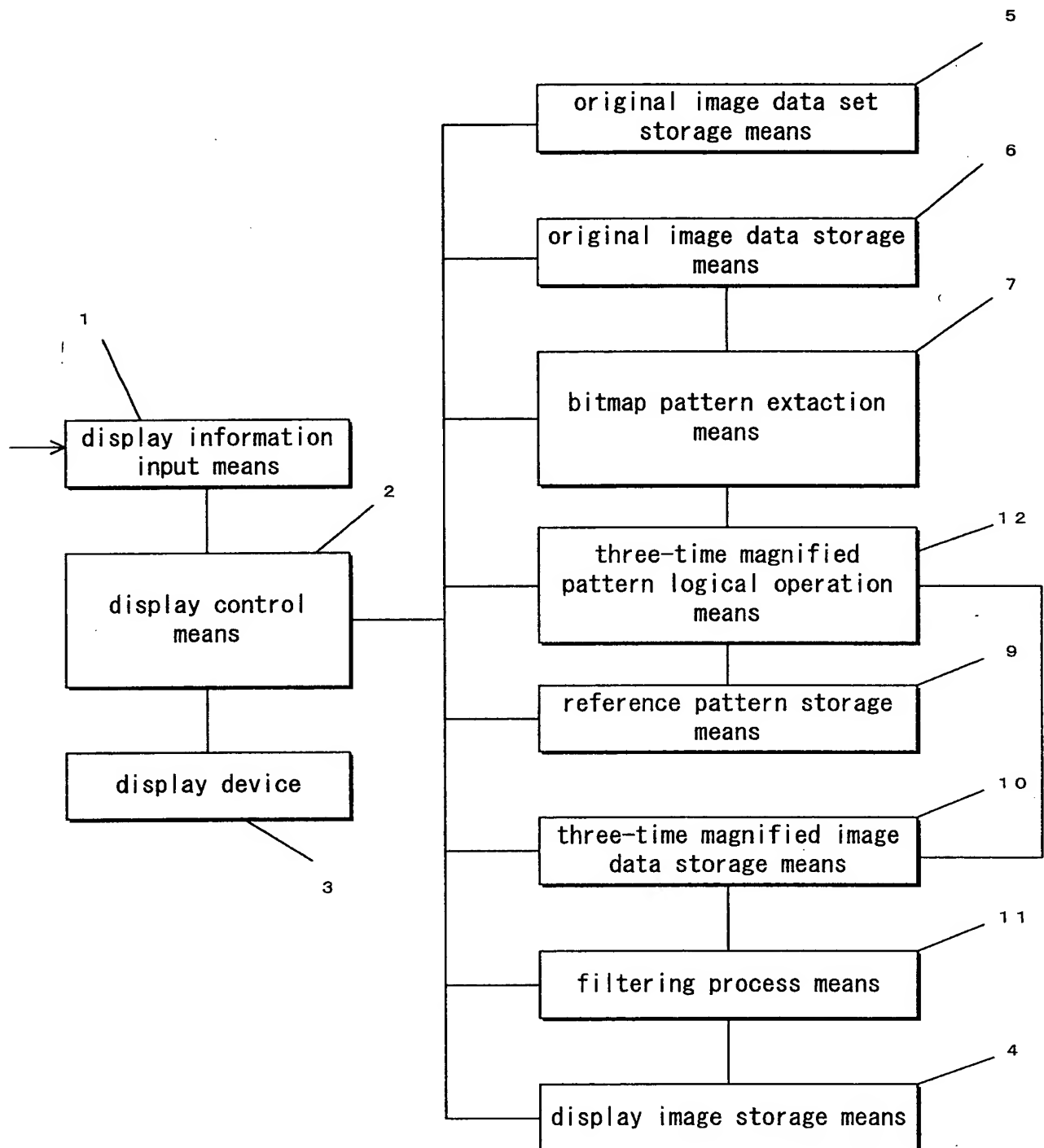
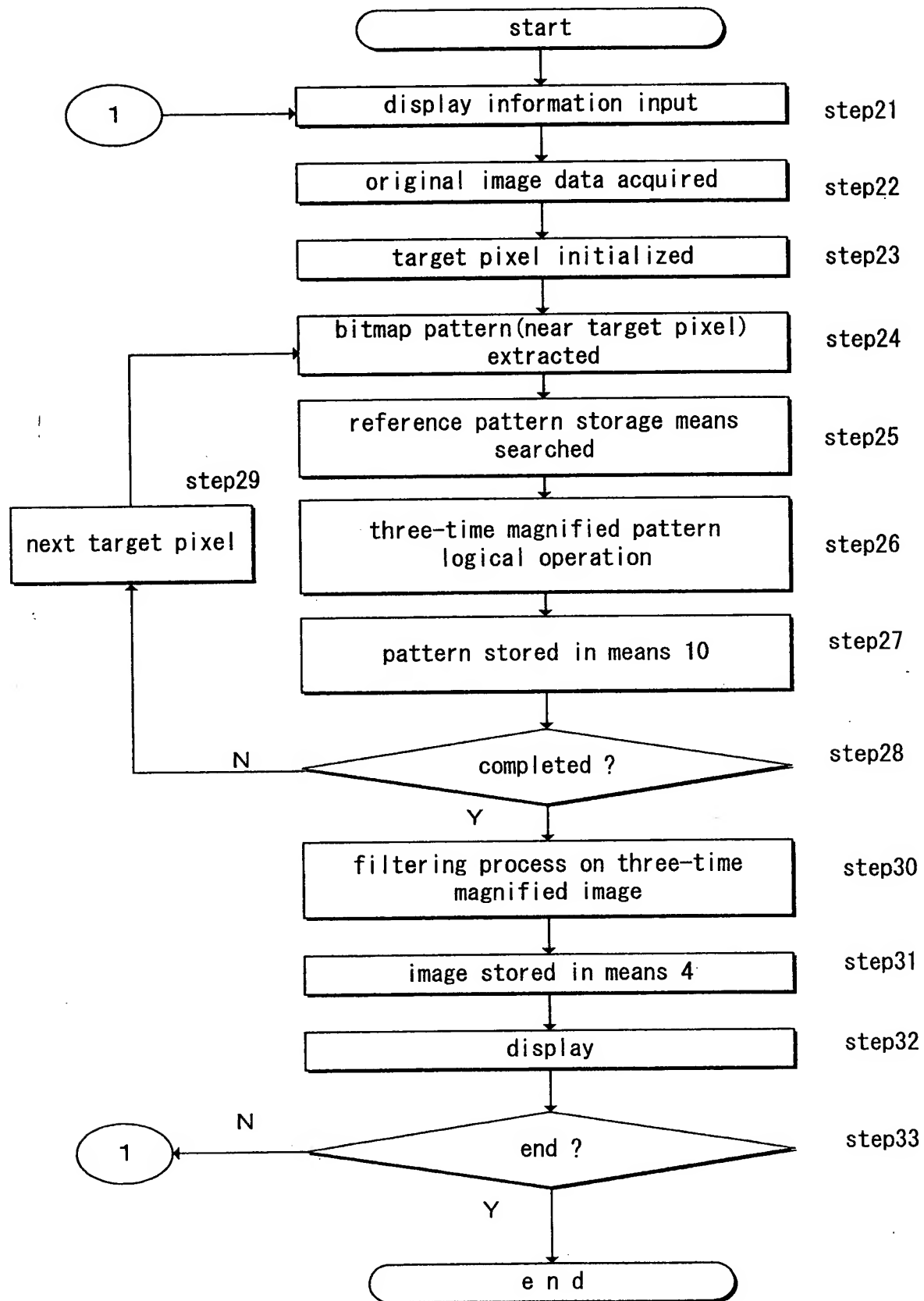
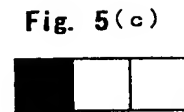
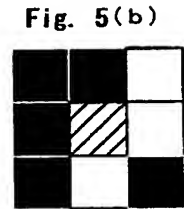
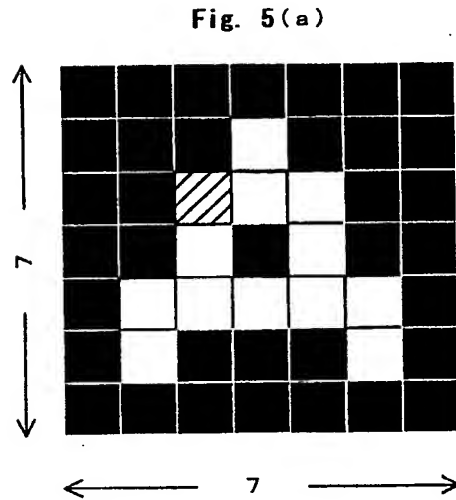


Fig. 4





**Fig. 6**

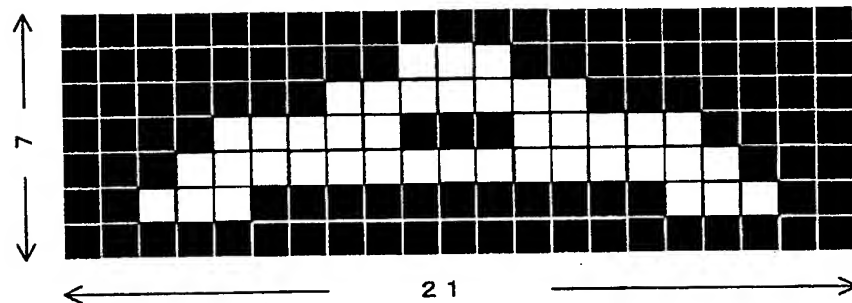


Fig. 7

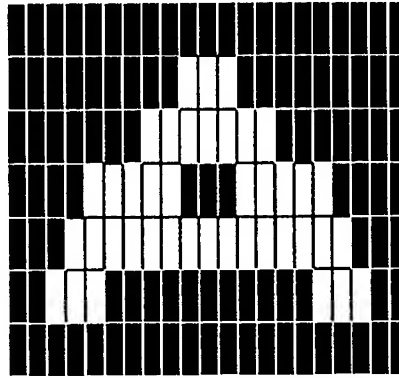
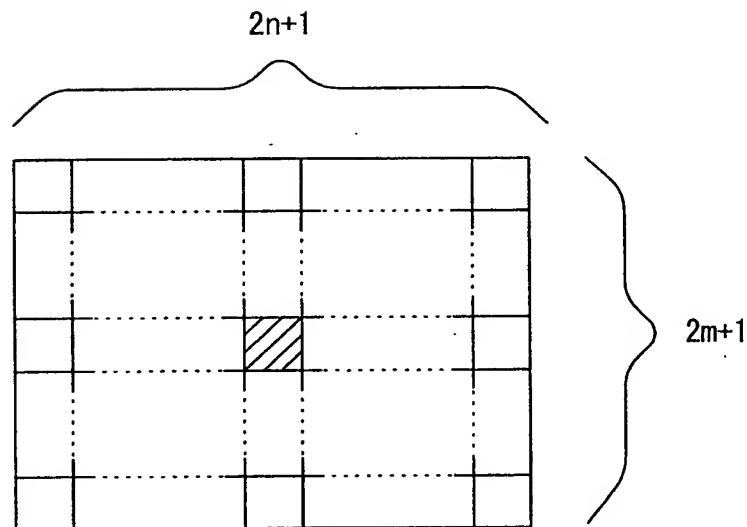
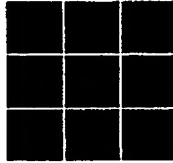


Fig. 8



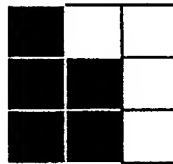
**Fig. 9(a)**



**Fig. 9(b)**



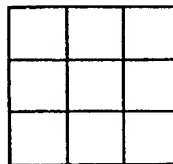
**Fig. 9(c)**



**Fig. 9(d)**



**Fig. 9(e)**



**Fig. 9(f)**



**Fig. 10**

000000000

000

001101001

001

111111111

111

Fig. 11(a)

(-1, -1)	(0, -1)	(1, -1)
(-1, 0)	(0, 0)	(1, 0)
(-1, 1)	(0, 1)	(1, 1)



don't care

Fig. 11(b)

*	*	*
*	*	*

if(x(-1,0)=1 and x(1,0)=1 and x(0,0)=1) then  
result := '111';

Fig. 11(c)

*	*	*
*	*	*

if(x(-1,0)=0 and x(1,0)=0 and x(0,0)=0) then  
result := '000';

Fig. 11(d)

*		*
*		*
*		*

if(x(0,-1)=1 and x(0,1)=1 and x(0,0)=1) then  
result := '111';

Fig. 11(e)

*		*
*		*
*		*

if(x(0,-1)=0 and x(0,1)=0 and x(0,0)=0) then  
result := '000';

Fig. 11(f)

*		
*		

if(x(-1,-1)=1 and x(0,1)=1 and x(0,0)=1  
and x(0,-1)=0 and x(1,-1)=0 and x(1,0)=0  
and x(1,1)=0) then  
result := '110';

Fig. 11(g)

*		
*		

if(x(-1,-1)=0 and x(0,1)=0 and x(0,0)=0  
and x(0,-1)=1 and x(1,-1)=1 and x(1,0)=1  
and x(1,1)=1) then  
result := '001';

⋮



Fig. 12

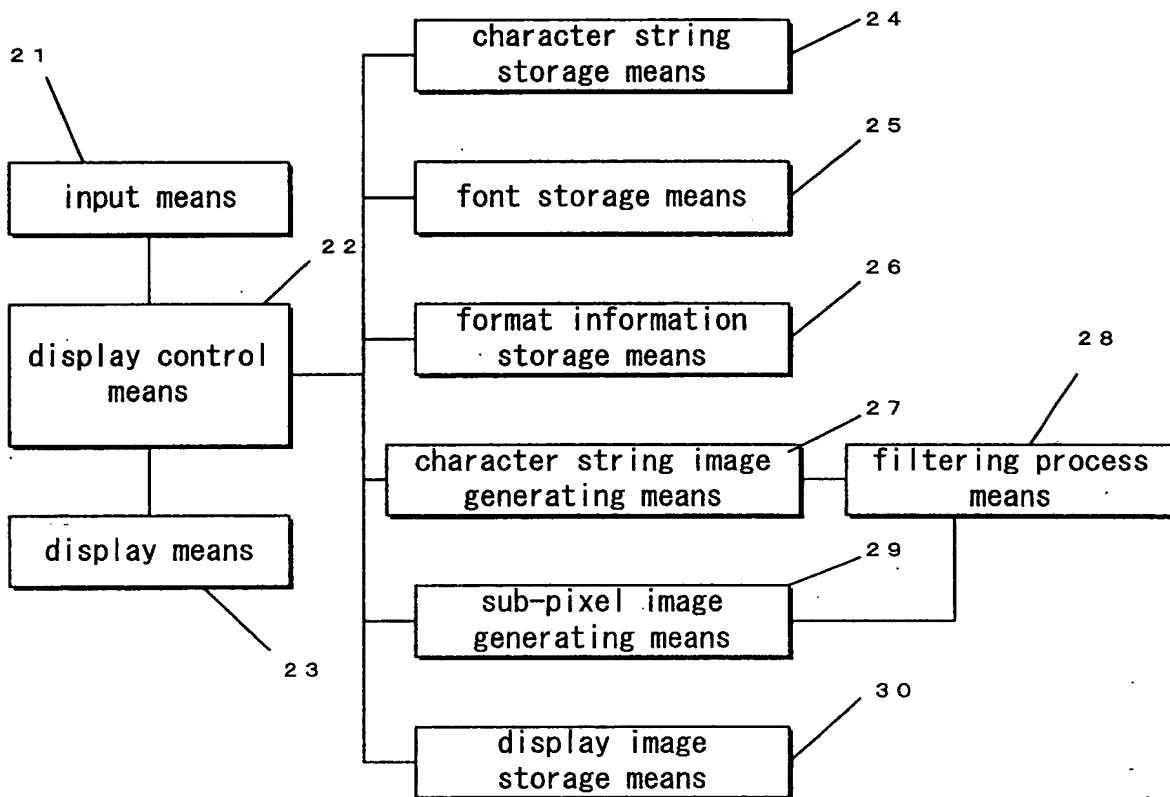


Fig. 13

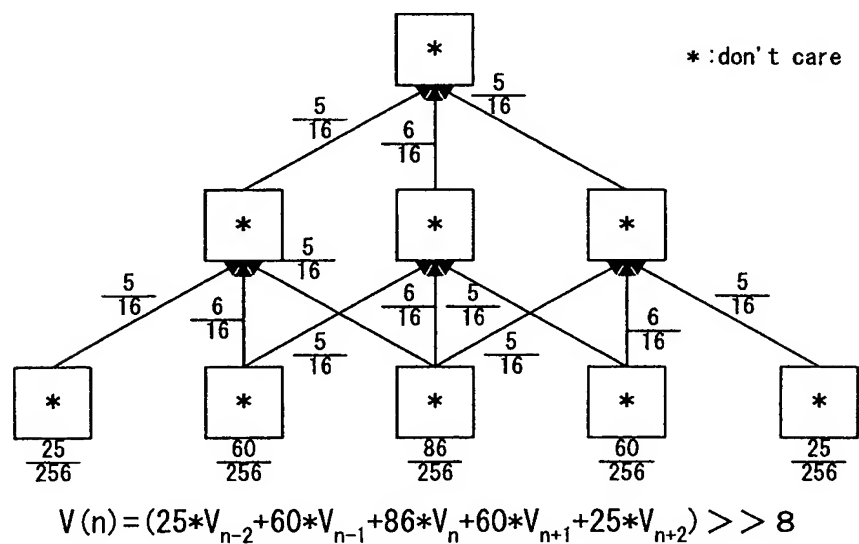


Fig. 14

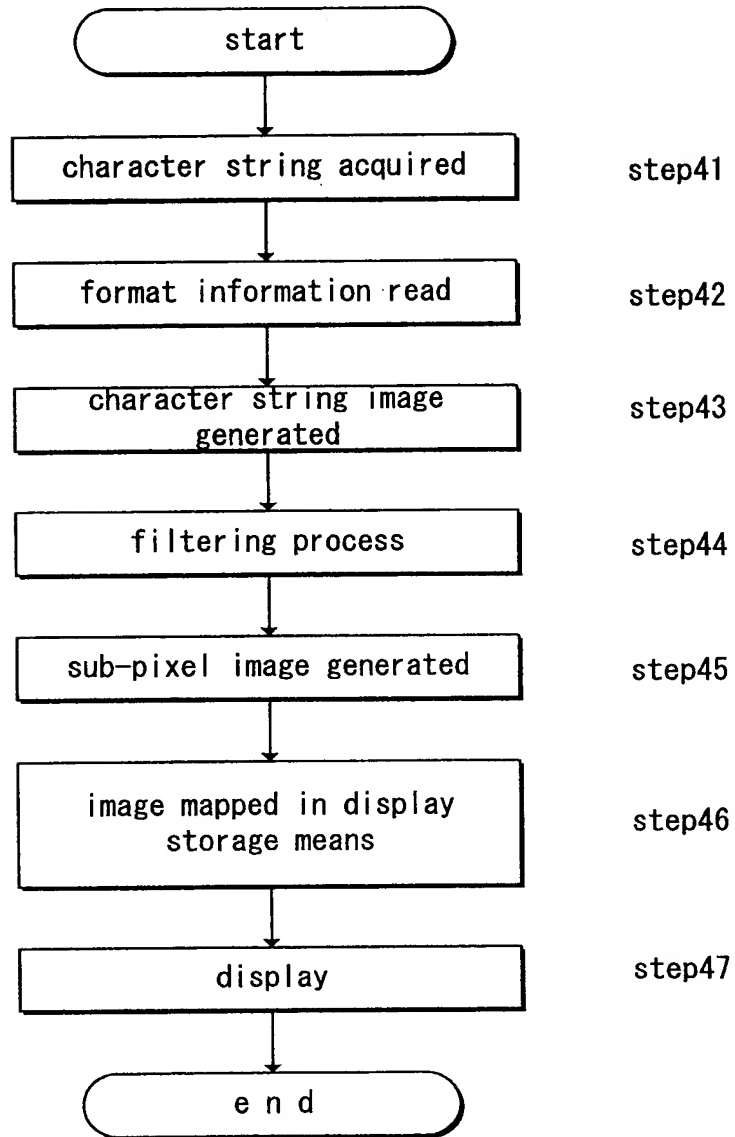


Fig. 15

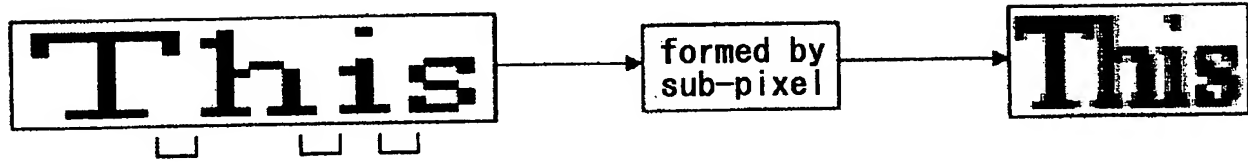


Fig. 16

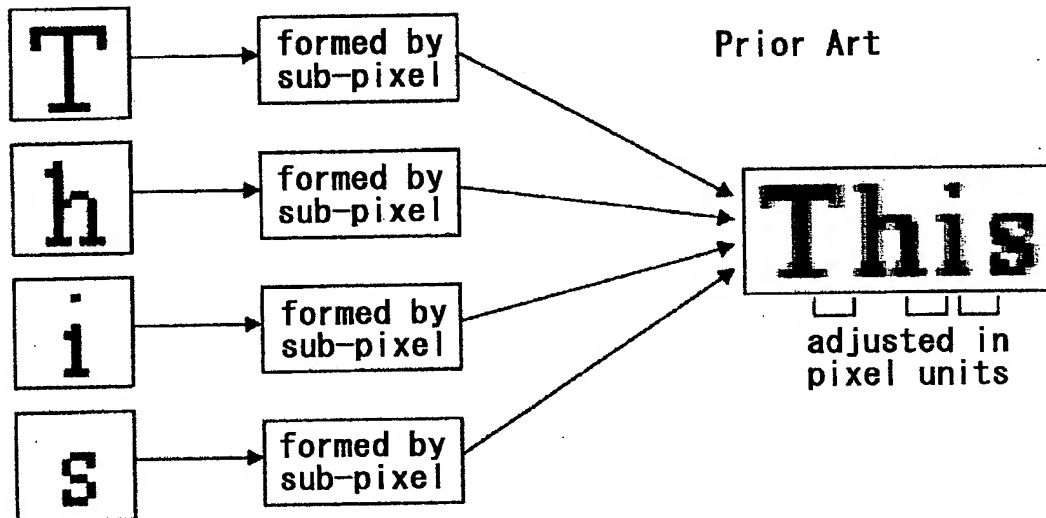


Fig. 17

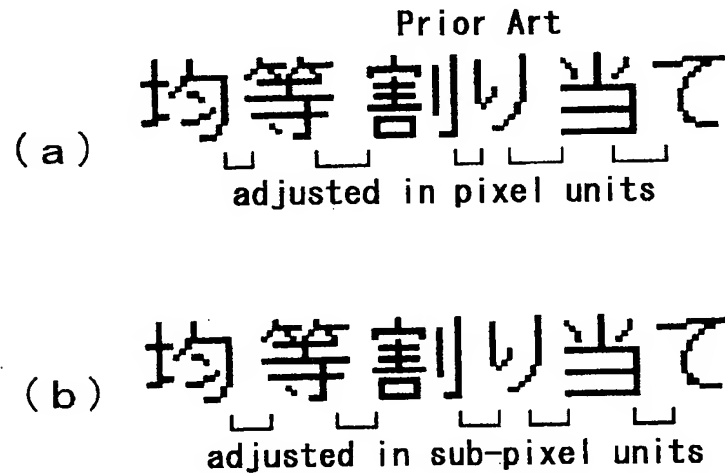


Fig. 18

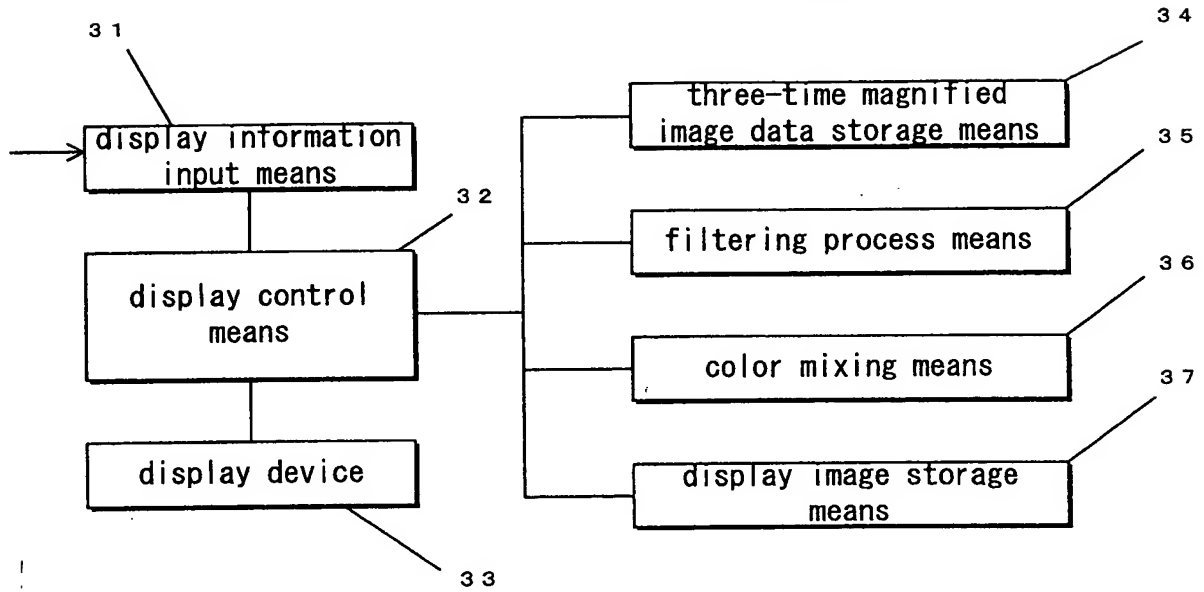


Fig. 19

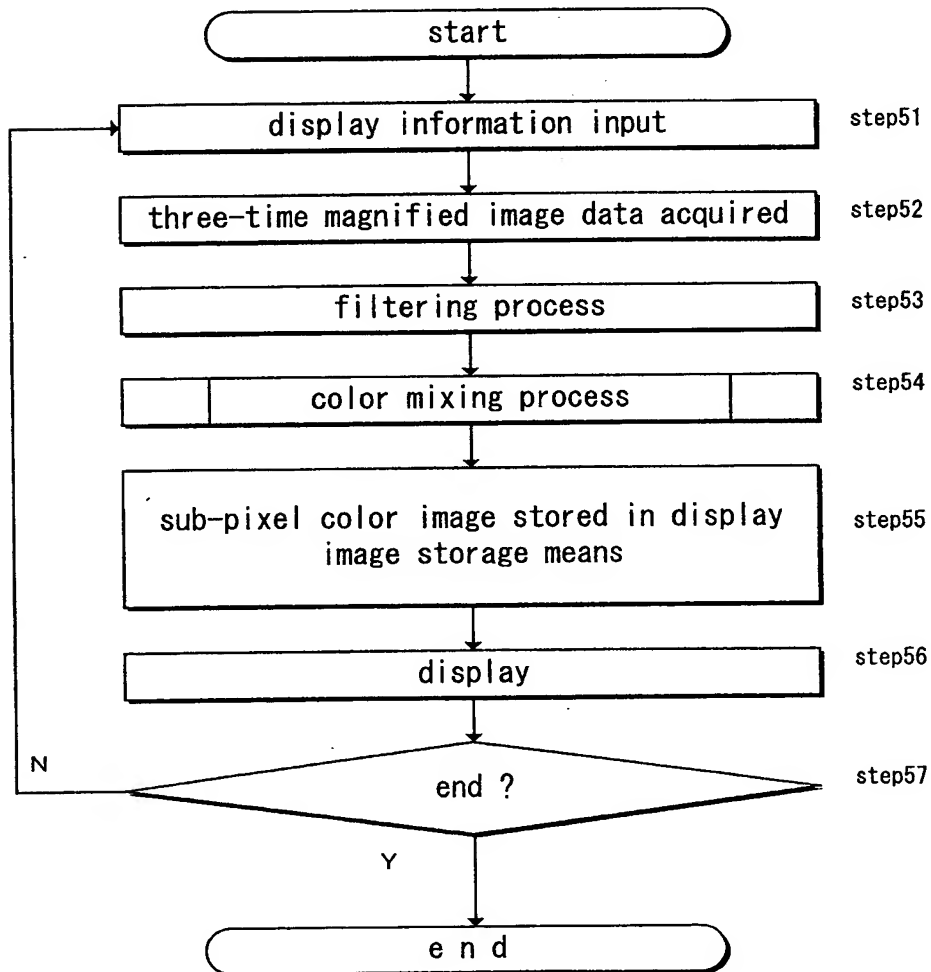


Fig. 20

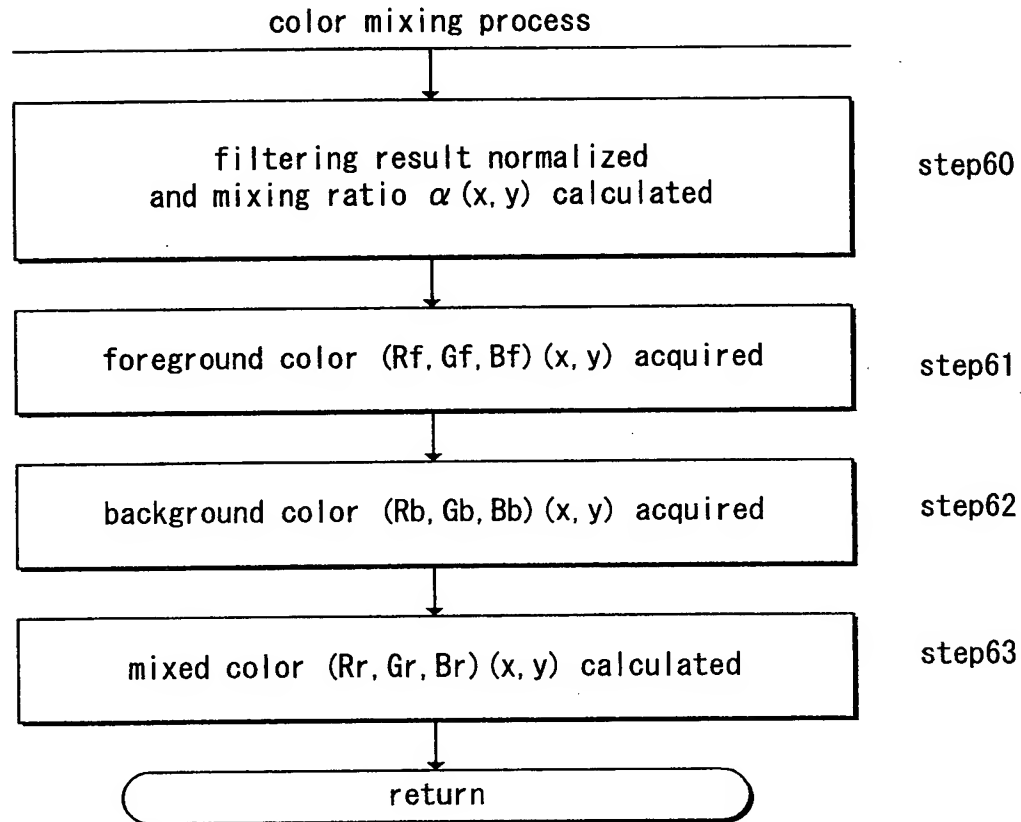


Fig. 21

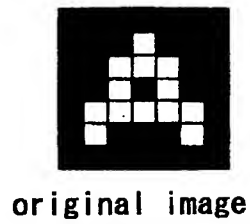


Fig. 22

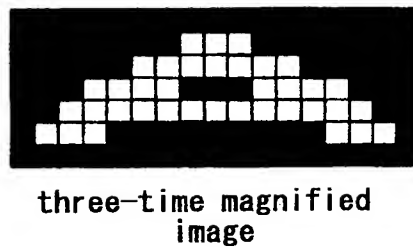


Fig. 23

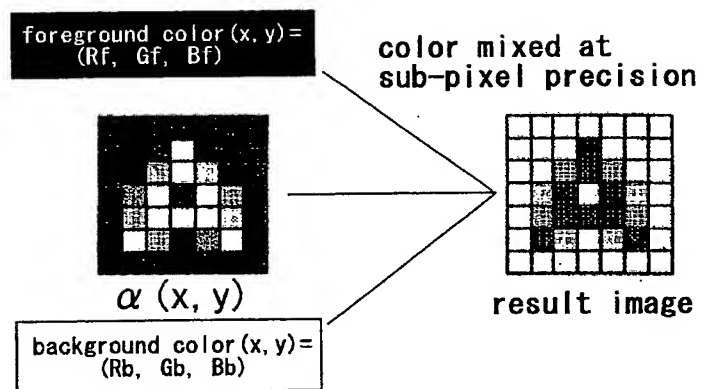


Fig. 24

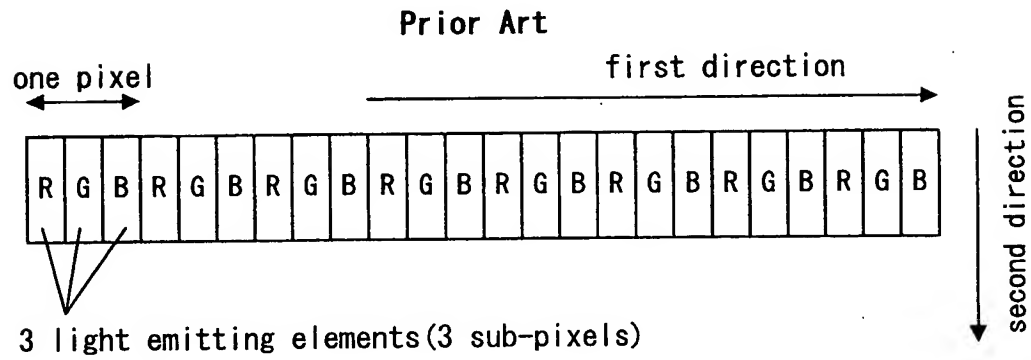


Fig. 25

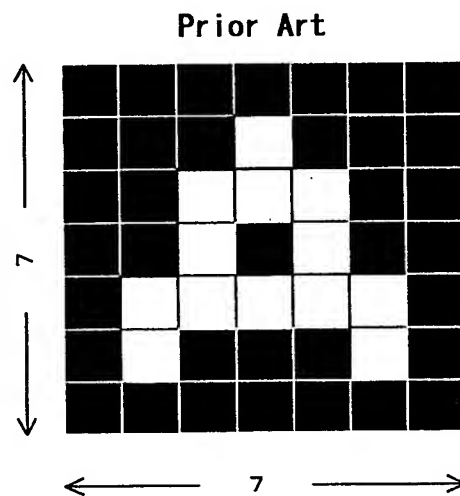


Fig. 26

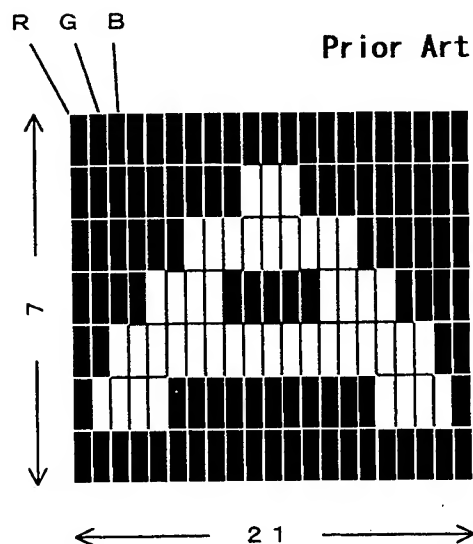
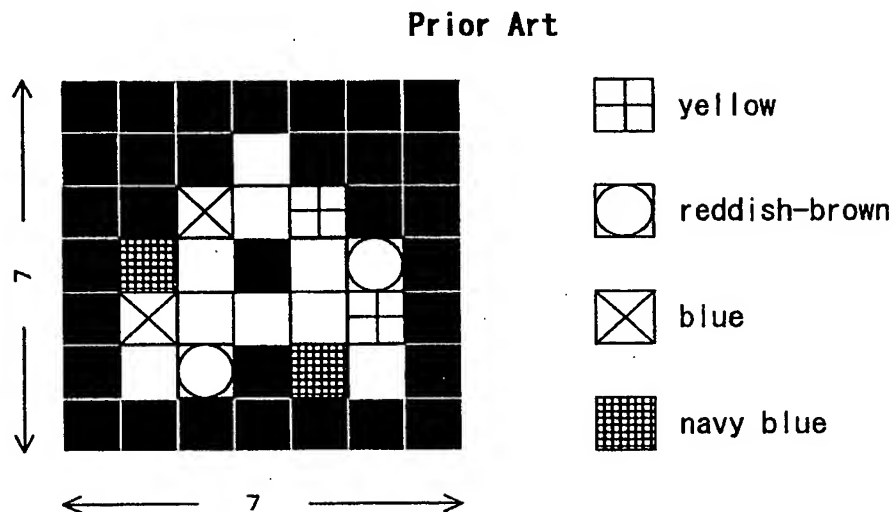


Fig. 27



**Prior Art**

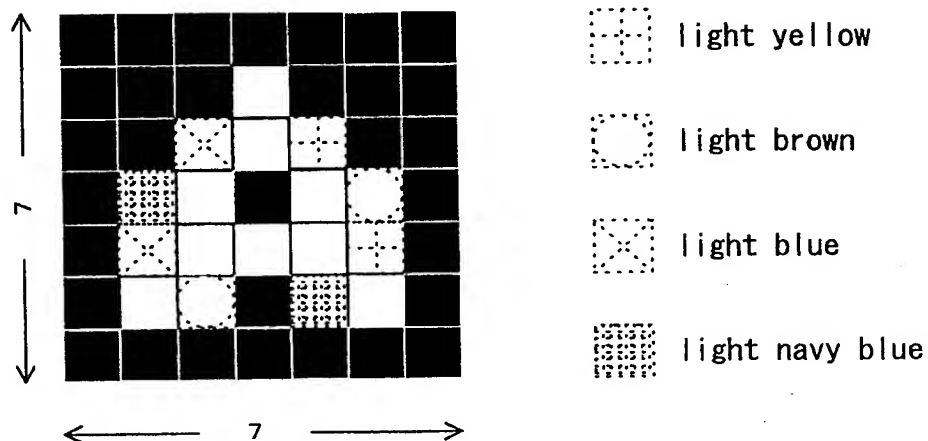
Fig. 28(a)

1	2	3	2	1
9	9	9	9	9

↑  
target pixel

**Prior Art**

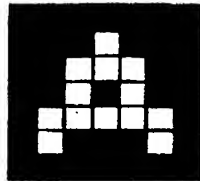
Fig. 28(b)





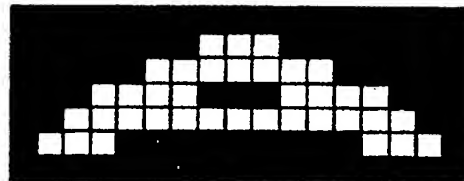
Prior Art

Fig. 29(a)



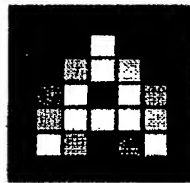
original image

Fig. 29(b)



three-time magnified  
image

Fig. 29(c)



Prior Art